

MAMMOMAT 3000

RX

Wiring Diagram

Stereotactic Biopsy Attachment

RX B7-230.051.02.02.02

English
11.95

From serial No.	1004	3001																		
Revision no. of document	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Page	Revision no. of page																			
0-1	0	0																		
0-2	0	0																		
1-1	0	0																		
1-2	0	1																		
1-3	0	0																		
1-4	0	1																		
2-1	0	1																		
2-2	0	1																		
2-3	0	1																		
2-4	0	0																		
3-1	0	1																		
3-2	0	0																		
4-1	0	0																		

Table of contents

1 General Overview 1-1

 System overview 1-1

 Placement of PC-boards and components, stand 1-2

 General notes, remarks, subassembly overview, magnets 1-3

 List of potentiometers and switches 1-4

2 Functional diagrams, Biopsy attachment 2-1

 Power supply and protective ground wire distribution 2-1

 Evaluation unit M20 2-2

 Biopsy unit M21 with interconnections 2-3

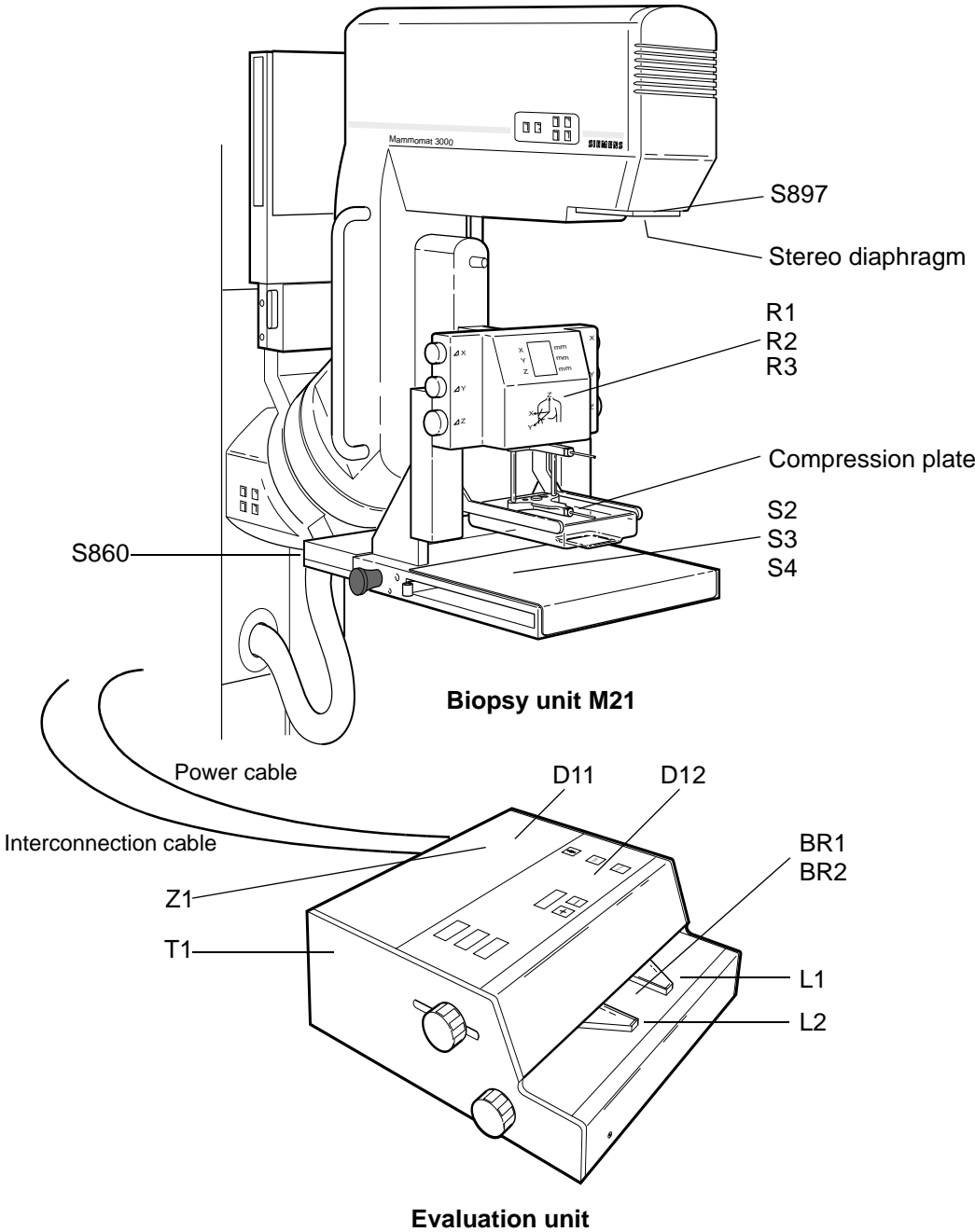
3 Functional diagrams, Stand 3-1

 Object table 1 + Biopsy unit 3-1

 Tilt signal 3-2

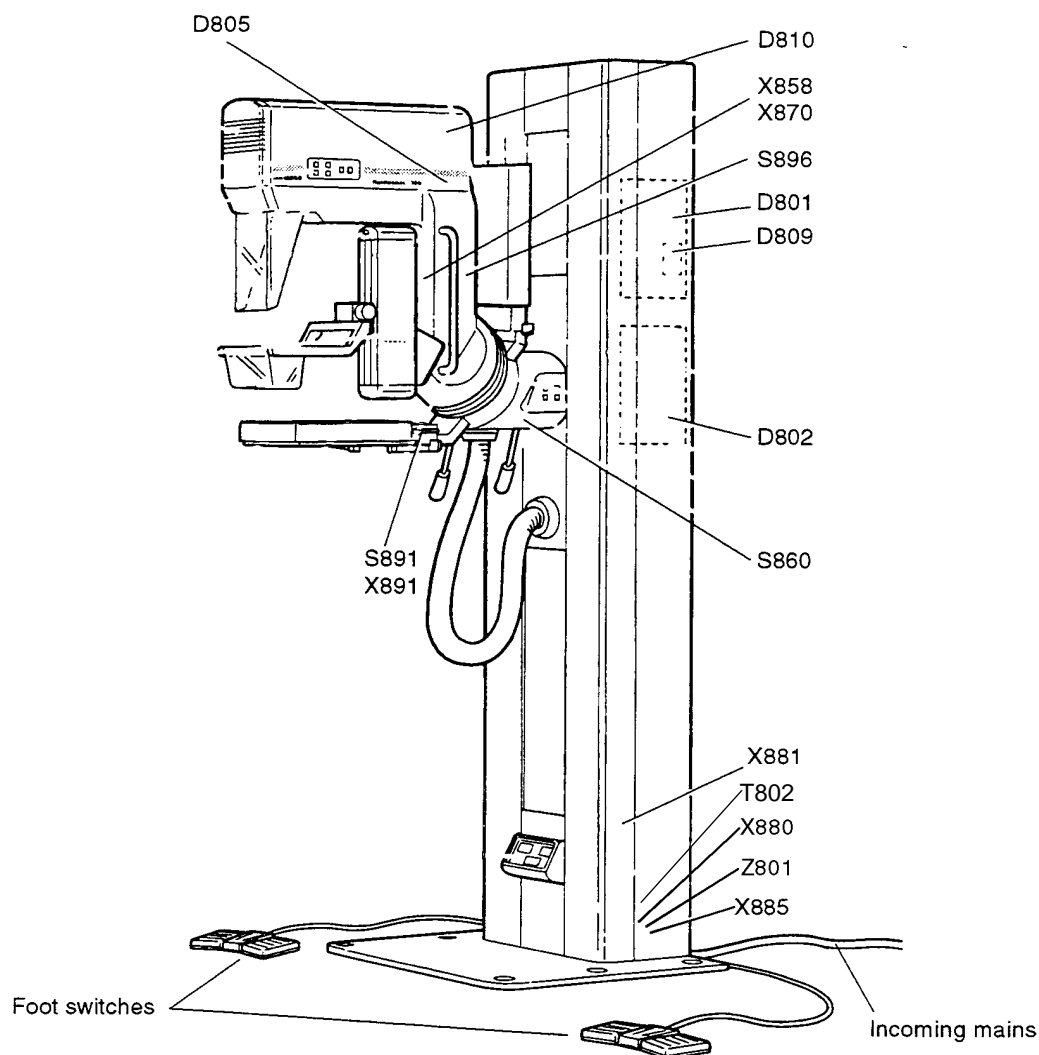
4 Compatibility list hardware / firmware 4-1

M3000 STAND



9414 0024

Placement of PC-boards and components, stand



General notes

Circuit diagram RX B7-230.051.02.01... shows the function of the Mammomat 3000 Stereotactic Biopsy Attachment. Page and wiring diagram notes on power supply and electronic PC-boards contained in Mammomat 3000 circuit diagram X041E are included in the present wiring diagram where necessary.

Remarks

Page/current path		
*1	2-1/2D	Line voltage At a line frequency of 60 Hz, reconnect cable from T1.4 to T1.5
*4	2-2/5E	For disconnection of WR cable at EE-Prom J16, plug in jumper X8.1-2

Subassembly overview

M20 Evaluation unit

M21 Biopsy unit

Magnets

Page/current path		
2-2/5C	Br1	M20 Film lock
2-2/5C	Br2	M20 Film lock

Overview of printed circuits

D11	Stereo evaluation
D12	Stereo display (evaluation unit)
D14	Biopsy display
D801	CPU Board, stand
D802	Motor control board, stand
D805	Wing board, stand
D809	Thickness adapter board, stand
D810	Tilt switch board, stand

List of Potentiometers and Switches

Fuses overview

PCB/ Location	Fuse	Fused voltage
D11/ M20	F1, 1.5AT	21V
Z1/ M20	F2, 1 AT	230V

SWITCHES

Switch	Page	Description
-/Z1	2-1/3C	Mains switch (part of Z1)
X8/D11	2-2/5E	EEPROM WR plug in jumper
S2/M21	2-2/4B	Cassette loaded switch
S3/M21	2-2/4B	Left position cassette tray switch
S4/M21	2-2/4B	Right position cassette tray switch
S897/stand	2-3/1B	Diaphragm switch
S860/stand	3-1/3C	Stereo lever switch
S896/stand	3-2/5A	Tilt opto switch. Enables exposure in $\pm 10^\circ$ and 0° in stereo mode.

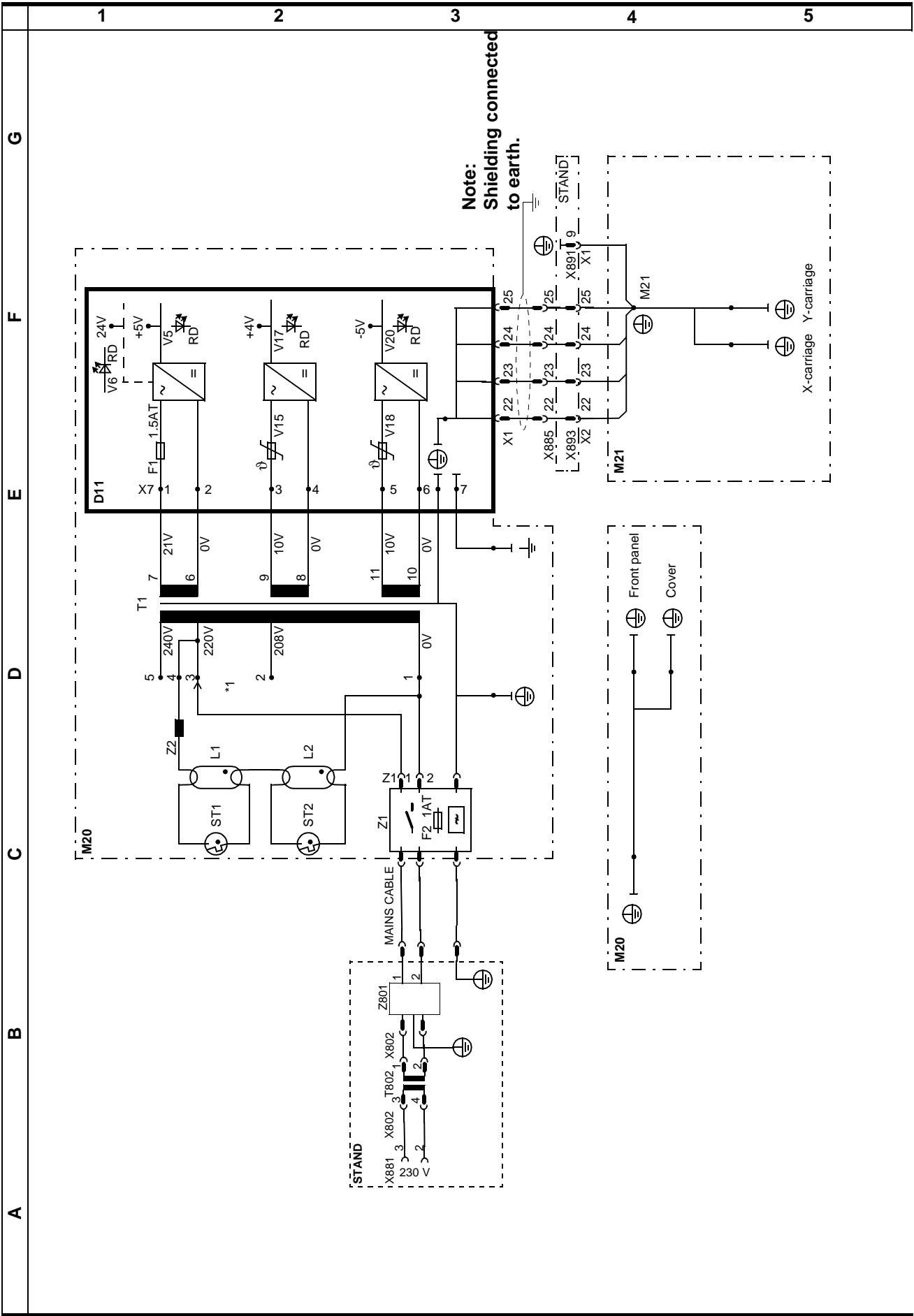
POTENTIOMETERS

Potentiometer	Page	Description
R1/M21	2-3/1G	X, 1K
R2/M21	2-3/1G	Y, 1K
R3/M21	2-3/1G	Z, 1K

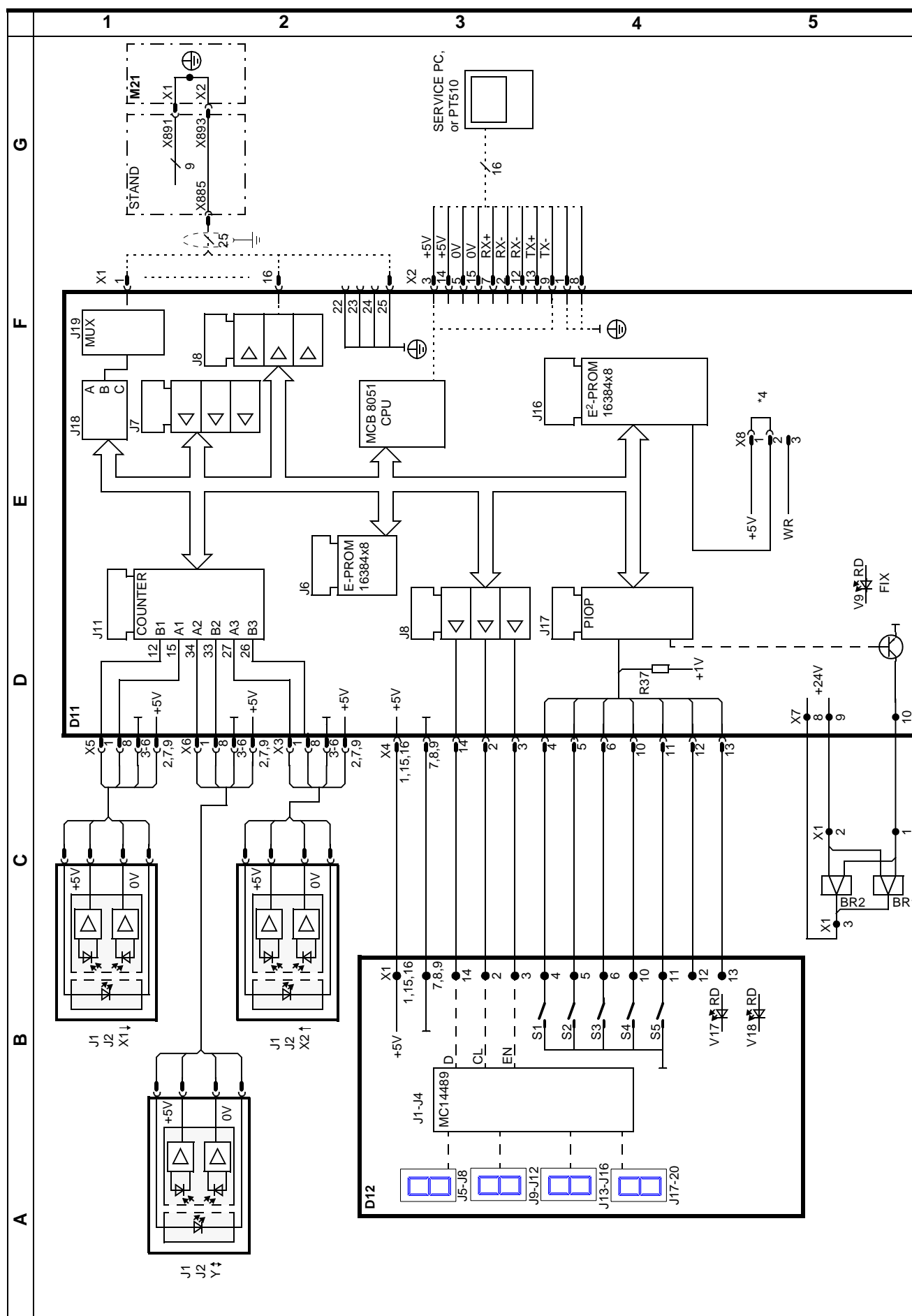
MISCELLANEOUS

Misc.	Page	Description
T1/M20	2-1/2D	Mains transformer
Z1/M20	2-1/3C	Mains filter
Z2/M20	2-1/1D	Choke
ST1/M20	2-1/2C	Starter
ST2/M20	2-1/2C	Starter
BR1/M20	2-2/5C	Film-lock solenoid
BR2/M20	2-2/5C	Film-lock solenoid
L1/M20	2-1/2C	Fluorescent tube
L2/M20	2-1/2C	Fluorescent tube
Z801/STAND	2-1/3B	Stereo Mains filter, stand
T802	2-1/3B	Isolation transformer
X885	2-1/3E	25-pin D-Sub EMC-filtration, 2nF to ground.

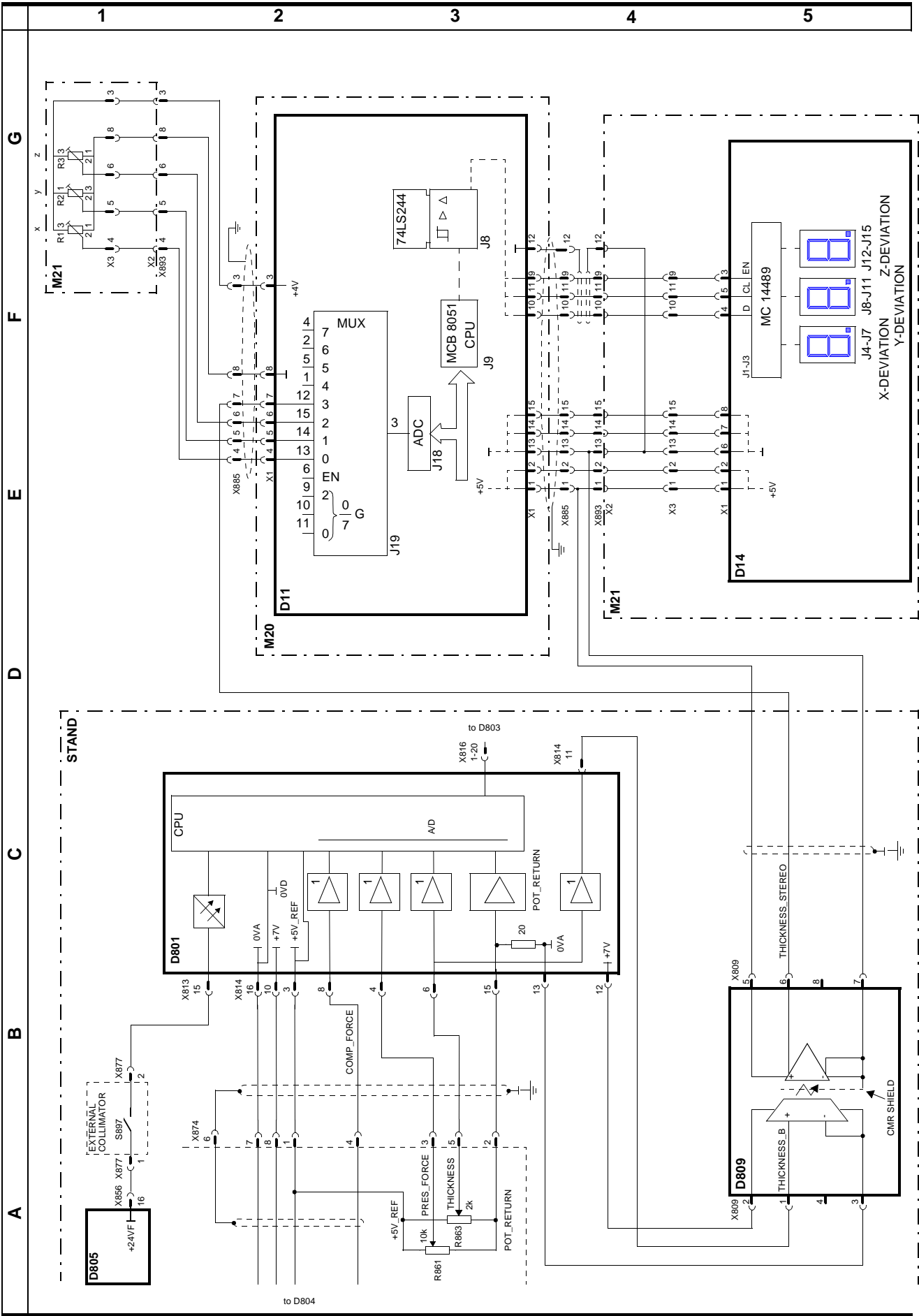
Power pack and protective ground wire distribution



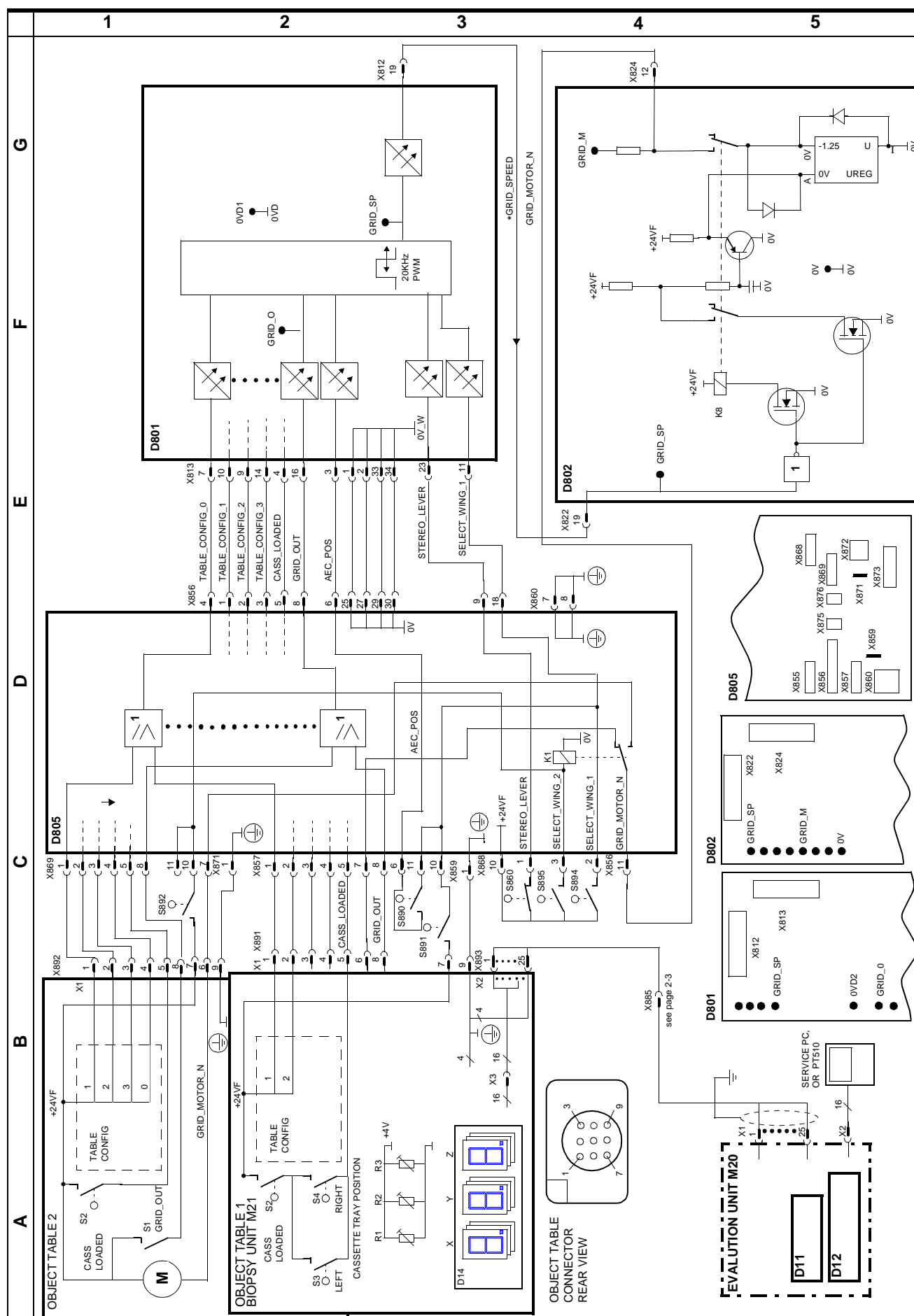
Evaluation unit M20



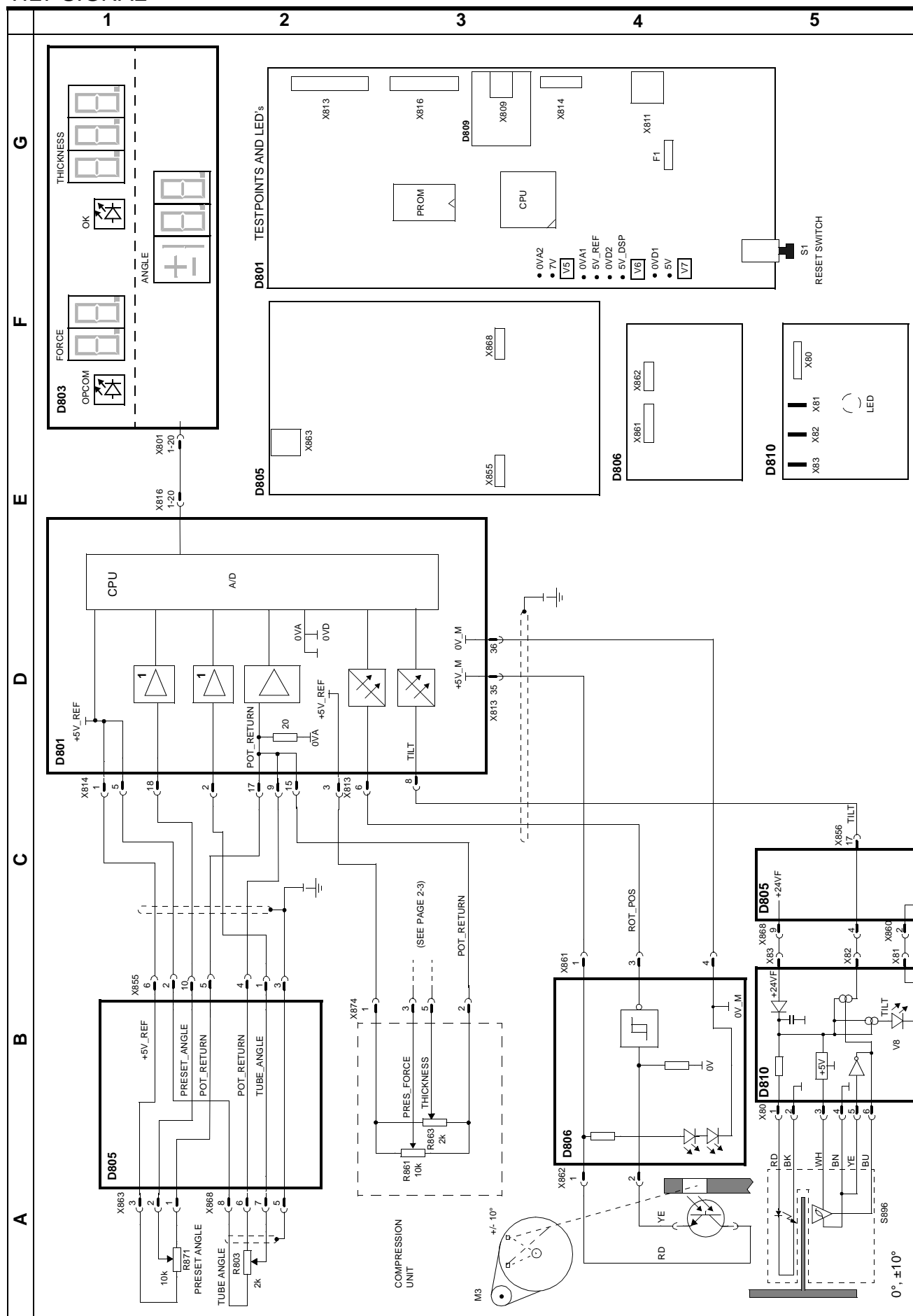
Biopsy unit M21 with interconnections



	1	2	3	4	5
G					
F					
E					
D					
C					
B					
A					



TILT SIGNAL



STEREOTACTIC UNIT

Designation	Part no.	Revision no. of document															
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
D11	97 24 501 G2123	X															
D12	97 24 527 G2123	X															
D14	97 24 543 G2123	X															
D11 / J6	62 98 546 X041E	X															

STAND

Designation	Part no.	Revision no. of document															
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
D809	62 85 667 X041E	X															
D810	63 15 522 X041E	X															
D801	61 67 980 X041E	X															
PROM/D801	63 15 704 X041E	X															

X = Beginning of delivery

0 = Subsequent installation possible